

## Matthiola Column Stock Series

(*Matthiola incana*)

Cut Flowers Culture (revised 02/25/21)

Column Stock will produce approximately 50% double-flowering plants. It is best suited for field production in mild climates.

### General Information

| Cultivation Type | Usage | Stem Length             | Timing Group |
|------------------|-------|-------------------------|--------------|
| Field grown      | Line  | 24-30 in.<br>(61-76 cm) | N/A          |

### Germination

| Seed Form | Recommended Plug Size | Seeds/Cell | Plug Crop Weeks | Days from 50% to maximum germination | Initial Media pH/EC (1:2)   | Cover Seed |
|-----------|-----------------------|------------|-----------------|--------------------------------------|-----------------------------|------------|
| RAW       | Direct sow            |            | N/A             | 14-21                                | 5.8-6.2 pH<br>0.75 mmhos/cm | Yes        |

### Plug Production

|                    | Stage 1              | Stage 2                                   | Stage 3                                 | Stage 4                                 |
|--------------------|----------------------|---|---|---|
| <b>Moisture</b>    | Level 4              | Level 3-4                                 | Level 3-4                               | Level 3                                 |
| <b>Temperature</b> | 65-70°F<br>(18-21°C) | 60-65°F<br>(16-18°C)                      | 60-65°F<br>(16-18°C)                    | 55-60°F<br>(13-16°C)                    |
| <b>Light</b>       |                      | 1,000-2,500 f.c.<br>(10,800-26,900 Lux)   | 1,000-2,500 f.c.<br>(10,800-26,900 Lux) | 2,500-5,000 f.c.<br>(26,900-53,800 Lux) |
| <b>Fertiliser</b>  |                      | Less than 100 ppm N<br>(Less than 0.7 EC) | 100 to 175 ppm N<br>(0.7 to 1.2 EC)     | 100 to 175 ppm N<br>(0.7 to 1.2 EC)     |

### Propagation Key Tips

In field grown-type stocks, typically the seed is directly sown into the field, so it's important to maintain the optimal field conditions, especially the moisture conditions, for the seed to germinate and establish.

### Growing on to Finish

| Target Media pH/EC (1:2)       | Fertiliser                          | Daylength |
|--------------------------------|-------------------------------------|-----------|
| 5.8-6.5 pH<br>1.5-2.0 mmhos/cm | 175 to 225 ppm N<br>(1.2 to 1.5 EC) | -         |

### Crop Scheduling

| Cultivation Type | Support    | Temperature                                   | Density | Crop Time   |
|------------------|------------|---|---------|-------------|
| Field grown      | Not needed | 13-18°C/55-65°F (day) 10-16°C/50-60°F (night) | -       | 20-22 weeks |

### Finishing Key Tips

Column stocks are non-selectable for doubleness. Direct sow seed at 2.2 lbs./acre (1 kg/4,000 m<sup>2</sup>). Optimum stem length will be achieved during cool growing periods. High heat can stunt plants or prevent flower spikes from developing.

### Harvest

Harvest when 3-5 florets have opened.

## Post Harvest

Matthiola are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product. Hydrate and store in a cooler at 1-3°C (34-38°F) in commercial floral holding solution at the manufacturer recommended rates.

## Vase Life

5-8 days

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

## Variety Pictures

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American Beauty



Appleblossom



Apricot



Avalanche



Ball Pink No 22



Lilac Lavender



Malmaison Pink



Miracle Blue Mid



Miracle Crimson



Miracle Gold



Miracle Yellow



Pacific Blue



Pink Sweetheart



Purple Heart



Rose Pink



White Goddess



Formula Mixture



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